AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method of making an electrically conductive material, comprising:

beginning with a phosphate binder;

adding Ag particles to the binder to obtain a mixture including Ag in an amount of between about 8% to about 70% by volume;

drying the mixture for a predetermined length of time; and curing the mixture.

wherein said phosphate binder has a chemical formula of AB(PO₄), and A is selected from one of Al, Fe, and oxides thereof.

- 2. (Original) The method of claim 1, wherein the curing step includes ramping a temperature of the mixture upward such that the mixture is ultimately subjected to a curing temperature of greater than about 180 °C, but less than about 230 °C.
- 3. (Currently Amended) The method of claim 1, wherein said—phosphate binder has a chemical formula of AB(PO₄), where A is selected from one of Al, Fe, and exides thereof, and B, of the formula AB(PO₄), is selected from one of Cr, Mo, and exides thereof.

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- 4. (Original) The method of claim 1, further including adjusting a consistency of the phosphate binder by adding acidified H₂O.
- 5. (Original) The method of claim 1, wherein the step of drying further includes placing the mixture under pressure.
- 6. (Original) The method of claim 1, further comprising adding BN to the phosphate binder in an amount of up to about 5% by volume.
- 7. (Original) The method of claim 1, wherein said electrically conductive material has an operating temperature of at least three times greater than a temperature used to cure the mixture.
- 8. (Original) The method of claim 1, wherein the drying step proceeds until a moisture content of the mixture is between about 0.5% to about 1% water by volume.
- 9. (Currently Amended) An electrically conductive material, comprising:

a phosphate glass having a chemical formula AB(PO₄), where A is a first metallic material and B is a second metallic material; and

Ag particles dispersed within the phosphate glass in an amount of between about 8% to about 70% by volume.

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wherein the first metallic material is selected from one of Al, Fe, and oxides thereof.

- 10. (Canceled)
- 11. (Original) The electrically conductive material of claim 9, wherein the second metallic material is selected from one of Cr, Mo, and oxides thereof.
- 12. (Original) The electrically conductive material of claim 9, further including BN dispersed within the phosphate glass in an amount of up to about 5% by volume.
- 13. (Original) The electrically conductive material of claim 9, wherein said Ag particles are less than about 5 microns in size.
- 14. (Original) The electrically conductive material of claim 9, wherein said electrically conductive material has a resistance in a range of about 0.1 Ω/cm to about 6 Ω/cm^2 .
- 15. (Original) The electrically conductive material of claim 9, wherein said electrically conductive material has a curing temperature of between about 180 °C and 230 °C.

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16. (Original) The electrically conductive material of claim 9, wherein said electrically conductive material has an operating temperature of up to about 900 °C.

17. (Original) An electrically conductive material, comprising:
a phosphate glass having a chemical formula AB(PO₄), where A is
selected from one of Al, Fe, and oxides thereof, and B is selected from one of Cr, Mo,
and oxides thereof; and

Ag particles of a size less than about 5 µm that are dispersed within the phosphate glass in an amount of between about 8% to about 70% by volume, wherein said electrically conductive material has a curing temperature of between about 180 °C and 230 °C and an operating temperature of up to about 900 °C.

- 18. (Original) The electrically conductive material of claim 17, wherein said electrically conductive material has a resistance in a range of about 0.1 Ω /cm to about 6 Ω /cm.
- 19. (Original) The electrically conductive material of claim 17, further including BN dispersed within the phosphate glass in an amount of up to about 5% by volume.

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